UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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PATENT NO. : 7,657,748 B2

APPLICATION NO.: 10/521,741

ISSUE DATE : February 2, 2010

INVENTOR(S) : Craig B. Gentry

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8, Line 34: delete "(PKB, SKB)"; insert --(PK_B, SK_B)--.

Column 8, Line 44: delete the word "params"; insert --*params*--.

Column 8, Line 45: delete the words "masks S"; insert --masks *s*--.

Column 8, Line 46: delete the word "ID"; insert --*ID*--.

Column 8, Line 50 & 51: delete the words "s, params and ID"; insert --*s, params* and *ID*--.

Column 8, Line 52: delete the word "ID"; insert --*ID*--.

Column 8, Line 54: delete the words "params, ID and M"; insert --*params, ID* and *M*--

Column 8, Line 55: delete the words "C to recover M"; insert --*C* to recover *M*--

Column 10, Line 61 & 62: delete "$\hat{e}(P, P)^{abc}$ if P, aP, bP, and cP are known, but a, b, and c are not";
insert --$\hat{e}(P, P)^{abc}$ if *P, aP, bP*, and *cP* are known, but *a, b*, and *c* are not--.

Column 10, Line 64 & 65: delete "$\hat{e}(P, P)^{abc} = \hat{e}(abP, cP)$";
insert -- $\hat{e}(P, P)^{abc} = \hat{e}(abP, cP)$--

Column 10, Line 66 & 67: delete "$g = \hat{e}(P, P)$, then $g^{abc}=g^{ab})^c$ where $g^{ab}= \hat{e}(aP, bP)$ and $g^c= \hat{e}(P, cP)$"
insert --$g = \hat{e}(P, P)$, then $g^{abc}=(g^{ab})^c$ where $g^{ab} = \hat{e}(aP, bP)$ and $g^c = \hat{e}(P, cP)$--

Column 11, Line 48: delete "$C = [rP, M \oplus H_2(g^r)]$, where $g=\hat{e}(Q, P_B) \in G_2$";
insert --$C = [rP, M \oplus H_2(g^r)]$, where $g = \hat{e}(Q, P_B)\hat{e}(s_BP, P'_B) \in G_2$--

Column 12, Line 59: delete the word "params"; insert --*params*--.

Column 13, Line 39: delete the word "params"; insert --*params*--.

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Column 13, Line 43: delete the word "Musing"; insert --M using--

Column 15, Line 7: delete the word "sendery"; insert --sender y--

Column 15, Line 11: delete the word "sendery"; insert --sender y--

Column 15, Line 60: delete "m-1+1"; insert --$m-l$ +1--

Column 15, Line 66: delete "1-1"; insert --l -1--

Column 16, Line 10: delete "n-1+1"; insert --$n-l$ +1--

Column 16, Line 17: delete "1-1"; insert --l -1--

Column 16, Line 25: delete "n-1"; insert --$n-l$--

Column 19, Line 37: delete "sendery"; insert --sender y--

Column 20, Line 19: delete "$U_1 = rP_{zi}$ for k+1$\leq$I $\leq$ n+1";
insert -- $U_i = rP_{zi}$ for l+1$\leq i \leq n$+1--

Column 24, Line 40: delete the word "params"; insert --$params$--.

Claim 80 line 8 (Column 38, Line 11): delete "key!recipient"; insert --key/recipient--.

Claim 80 line 21 (Column 38, Line 24): delete "key!private"; insert --key/private--.

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